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Aerial Refueling Systems Advisory Group

An Introduction



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ARSAG Background

- **Established 1978 HQ SAC and ASC, Navy, Charter Developed**
- **Second meeting 1978, HQ SAC, Industry participation, ALC, MAJCOMS, etc.**
- **Rotary wing aircraft participation commenced, Army, 1981, charter modified**
- **International in 1983, charter modified to include international**
- **International Meetings:**
 - **United Kingdom, 1987**
 - **Australia, 1993,**
 - **Germany, 1995,**
 - **Canada, 1999**
 - **Spain, 2005**
- **NATO participation commenced, 1993**



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ARSAG Organization

- **Steering Group**
 - **International Military, Air Forces, Ministries of Defense**
 - **United States DOD, Military Services, Air Force, Navy, Army, Marines, Air Force Reserves, Air National Guard**
 - **NATO**
- **Chairs of the Eleven Panels**
 - **Operations**
 - **Training**
 - **Reliability & Maintainability**
 - **Interoperability Procedures & Documentation**
 - **Safety**
 - **Studies & Analysis**
 - **Advanced Concepts**
 - **Industry**
 - **System Design**
 - **Lighting & Markings**
 - **Test & Evaluation**
- **Board of Directors**
- **Executive Director**



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ARSAG Functions

- **Annual Conference**
- **Planning Meeting, Annual**
- **Special Projects Meetings, two to three annually**
- **Facilitate, Participate in and Host: DOD Joint Standardization Board for Aerial Refueling Systems**



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ARSAG Conferences

- **Monday: Pre-conference Workshop, DOD Joint Standardization Board for Aerial Refueling Systems Meets**
- **Tuesday - Thursday: General Assembly, Timely Reports and Briefings**
 - **military**
 - **industry**
- **Industry exhibits**
 - **airframe manufacturers**
 - **aerial refueling hardware manufacturers**
- **Break-out meetings**
- **Thursday: Tour Nearby Military Installation**



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ARSAG Accomplishments, *Examples*

- **Performance and Interface Survey**
- **USAF/USN Memorandum of Understanding**
- **KC-135 Pressure Regulation and Through-the-Boom Communication System Support**
- **Tanker Tail Mounted Flood Light**
- **Revised STANAG 344;7 (coupling insert & nozzle fix**
- **Generic Clearance Process**
- **ATP-56 Standard Procedures Document Development Support of UK and NATO (1992-present)**
- **Multipoint Drogue KC-135/KC=10 Support**
- **Revised STANAG 3447 Interoperability Probe/Drogue Drogue Clearance Envelope** (2005, See ARSAG website)
- **Test & Evaluation Instrumentation Guide Document** (2003, See ARSAG website)
- **DOD Joint Standardization Board for Aerial Refueling Systems Chartered**



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ARSAG's Importance to You

- **ARSAG is an open forum for addressing aerial refueling issues with experts in their aerial refueling fields**
- **Operational and training procedures**
- **New aerial refueling concepts and ideas**
- **New technology and development (example: wing mounted boom with aerial conversion capability to drogue and back)**
- **Lessons learned documents for aerial refueling boom/receptacle and probe/drogue tanker and receiver aircraft**



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ARSAG's Importance to You, *continued*

- **Draft aerial refueling technical guide documents for coordination**
 - **Military guide documents development**
 - **Technical exhibits conversion to military specifications**
 - **Specifications updated**
 - **International standardization documents**
- **Aerial Refueling Procedures**
 - **Draft documents, national**
 - **Draft documents, international**



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ARSAG's Importance to You, *continued*

- **Standardization of critical information**
 - **Interfaces**
 - **Terminology**
 - **Procedures**
- **Tanker / receiver clearance documentations repository**
- **Resolve operational issues**
 - **Fuel leakage**
 - **Tanker / receiver compatibility**
 - **Safety**
 - **Procedural**
 - **Training**



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Special Projects

- **Current and Future Special Projects for DoD Joint Standardization Board for Aerial Refueling Systems and ARSAG**

- ☐ **Completed**
- ☐ **In Process**
- ☐ **Projected**